

WHAT IS CLAIMED IS:

1. An *Escherichia* bacterium which is L-isoleucine auxotrophic and has ability to produce L-glutamic acid, L-proline or L-arginine.

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2. The *Escherichia* bacterium according to claim 1, which is deficient in any of L-isoleucine biosynthetic enzyme activities.

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3. The *Escherichia* bacterium according to claim 2, which is deficient in threonine deaminase activity.

4. The *Escherichia* bacterium according to any one of claims 1 to 3, which is *Escherichia coli*.

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5. A method for producing L-glutamic acid, L-proline or L-arginine, which comprises culturing the *Escherichia* bacterium as defined in any one of claim 1 to 4 in a medium containing L-isoleucine, to produce and
20 accumulate L-glutamic acid, L-proline or L-arginine in a culture and collecting L-glutamic acid, L-proline or L-arginine from the culture.